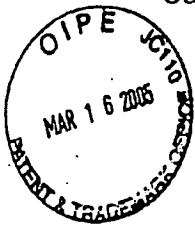


EXHIBIT H



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 1915.17US03

Morris

Confirmation No.: 8616

Application No.: 10/805,686

Examiner: Jennifer Thissell

Filed: March 19, 2004

Group Art Unit: 3635

For: ROOF BATTEN

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.


This information is being filed before the mailing date of a first Office Action on the merits. No certification or fee is required.

A translation of the non-English language references appears in the Appendix hereto.

This application was filed after June 30, 2003; therefore, copies of cited U.S. patents and U.S. published applications are not included.

Application No. 10/805,686

Respectfully submitted,


Wm. Larry Alexander
Registration No. 37,269

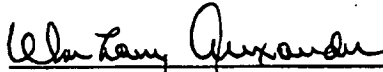
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4800 IDS Center
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Minneapolis, Minnesota 55402-2100
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Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 16-0631.

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March 14, 2005
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Wm. Larry Alexander

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Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Application Number 10/805,686
Filing Date March 19, 2004
First Named Inventor Morris
Art Unit 3635
Examiner Name Jennifer Thissell
Attorney Docket Number 1915.17US03

Sheet 1 of 2

U.S. PATENT DOCUMENTS

EXAMINER INITIAL ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code ² (if known)		
		US-4,418,505	12-06-1983	Thompson
		US-5,471,807	12-05-1995	Vasquez
		US-5,617,690	04-08-1997	Gibbs
		US-5,794,396	08-18-1998	Gibbs
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
		DE 44 21 941A1 (English translation enclosed)	01-04-1996	Klober	
		GB 2 062 056A	05-20-1981	Neumann	

EXAMINER
SIGNATUREDATE
CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/805,686
				Filing Date	March 19, 2004
				First Named Inventor	Morris
				Art Unit	3635
				Examiner Name	Jennifer Thissell
Sheet	2	of	2	Attorney Docket Number	1915.17US03
NON PATENT LITERATURE DOCUMENTS					
EXAMINER INITIAL*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
		Complaint for Patent Infringement, 2:04 CV 01005 PGC, U.S. District Court, District of Utah, 29 October 2004.			
		Answer to Complaint and Counterclaim, 2:04 CV 01005 PGC, U.S. District Court, District of Utah, 14 January 2005.			
		Reply to Defendant's Answer and Counterclaims, 2:04 CV 01005 PGC, U.S. District Court, District of Utah, 4 February 2005.			
		Memorandum of Law in Support of Plaintiff's Motion to Strike Defendant's Affirmative Defense of Inequitable Conduct, 2:04 CV 01005 PGC, U.S. District Court, District of Utah, 3 February 2005.			
		Opposition to Plaintiff's Motion to Strike Battels Plus' Defense of Inequitable Conduct, 2:04 CV 01005 PGC, U.S. District Court, District of Utah, 22 February 2005.			
		Reply Memorandum of Law in Support of Plaintiff's Motion to Strike Defendant's Affirmative Defense of Inequitable Conduct, 2:04 CV 01005 PGC, U.S. District Court, District of Utah, 28 February 2005.			
		Declaration of Randall T. Skaar, 2:04 CV 01005 PGC, U.S. District Court, District of Utah, 28 February 2005.			
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<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.</p> <p>This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.</p> <p><i>If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.</i></p>					

(12) UK Patent Application (19) GB (11) 2 062 056 A

(21) Application No 8030768
(22) Date of filing 24 Sep 1980
(30) Priority data
(31) 2939730

(32) 1 Oct 1979
(33) Fed. Rep. of Germany (DE)
(43) Application published
20 May 1981

(51) INT CL³
E04D 13/16

(62) Domestic classification
E1D 107 120 122 124
2023 2121 331 601 503
506 633 645 F LDC2

(56) Documents cited
GB 1566117
GB 2008242A
GB 1126904
GB 1113727
GB 805978
GB 763046
GB 296229

(58) Field of search
E1D
E1K
E1W

(71) Applicants
Isopeg Aktiengesellschaft,
FL-9495 Triesen,
Principality of
Liechtenstein

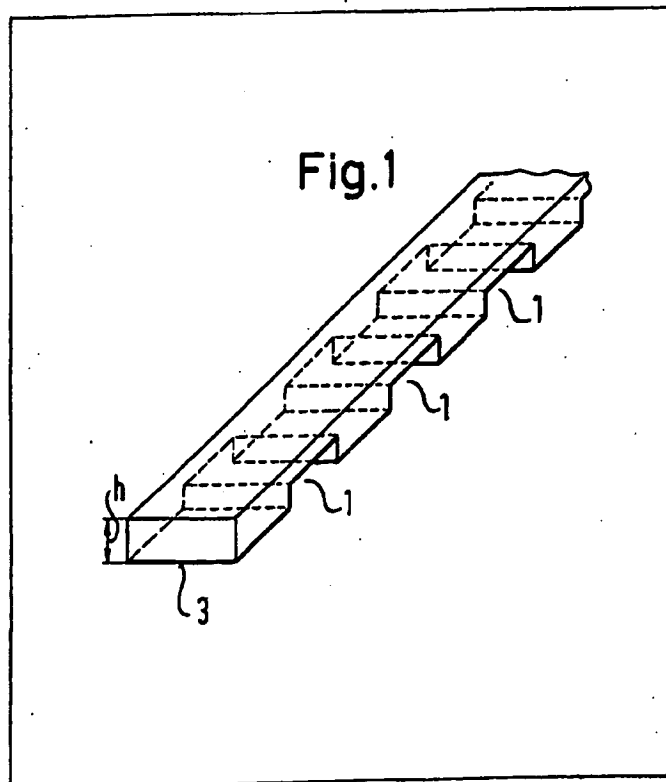
(72) Inventor
Peter Neumann

(74) Agents
Gill, Jennings & Every,
63-64 Chancery Lane,
London WC2A 1HN

(54) Roofing laths and roofs
incorporating such laths

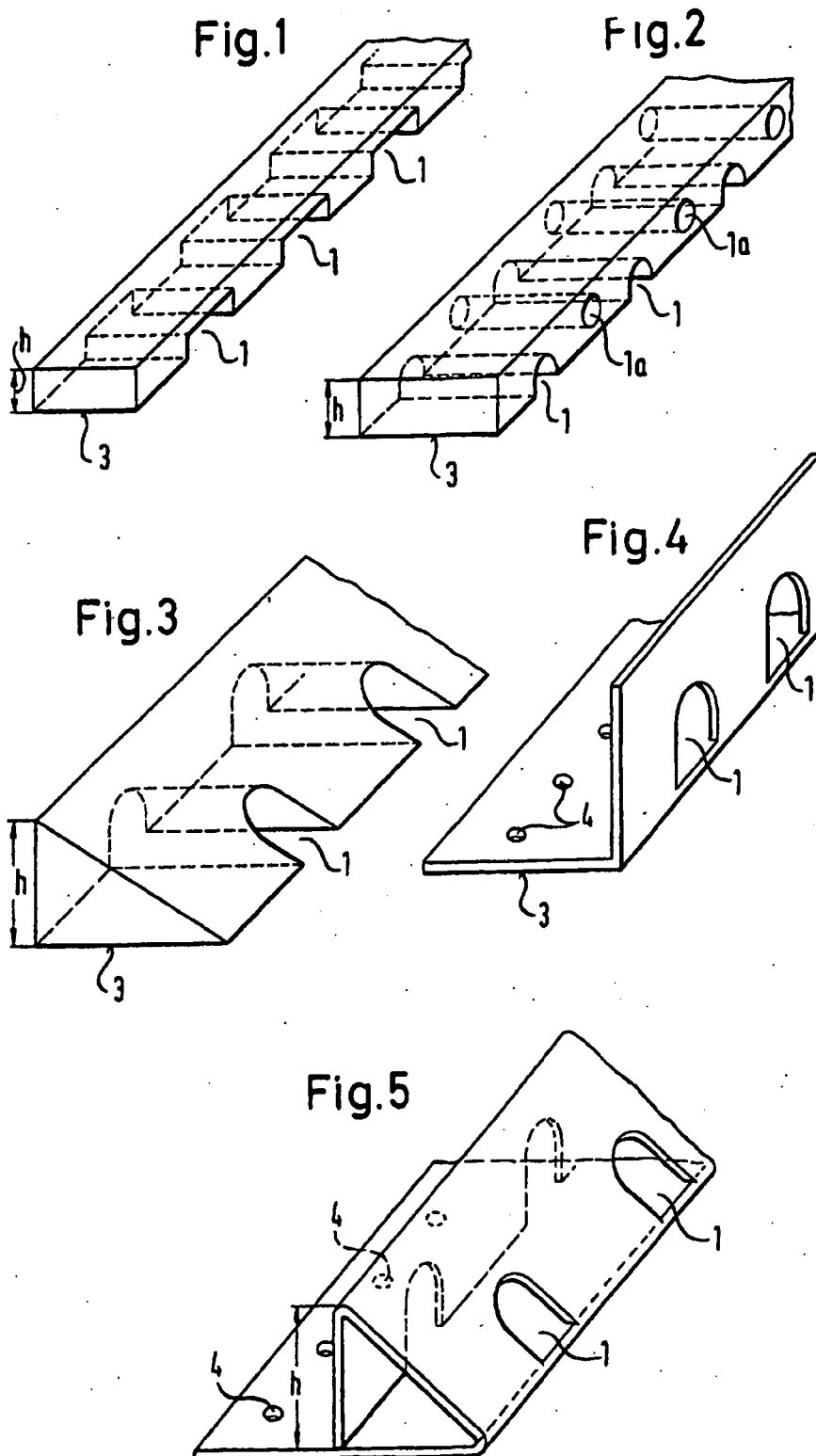
(57) A roofing lath, which, in use,
supports roof tiles or slates has in its
underside 3 a series of transverse

openings 1 which allow the cross-flow
of ventilating air and/or the drainage
of water between the tiles or slates
supported by the lath and a
waterproofing sheet of felt or plastics
material through which the lath is
fixed by nails or other fastenings.



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Fig.6

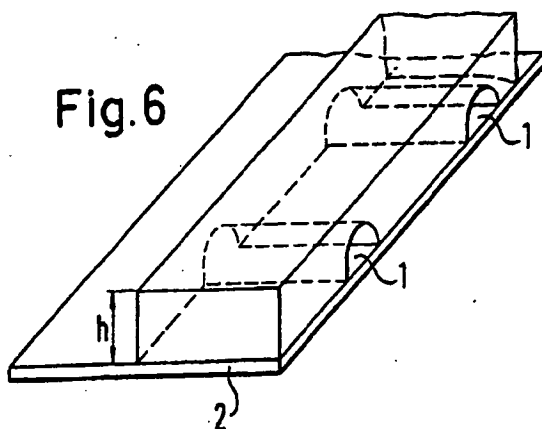


Fig.7

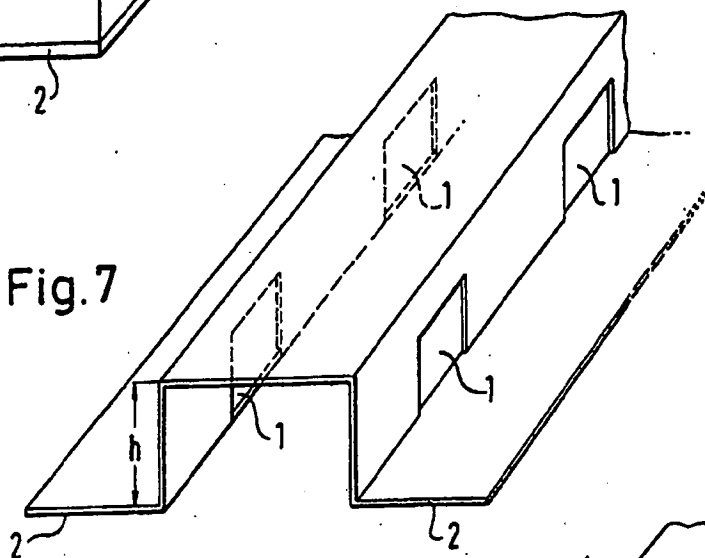
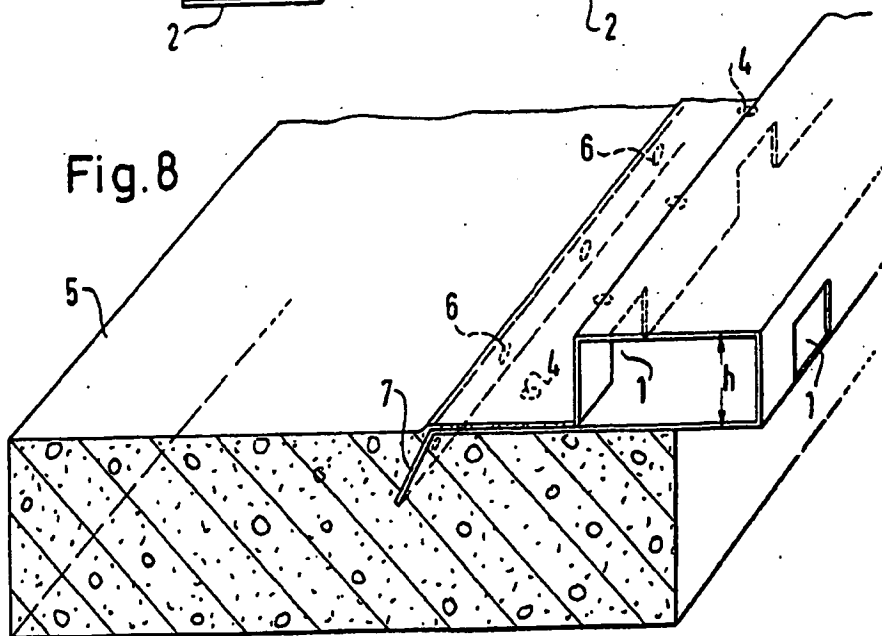


Fig.8



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SPECIFICATION

Roofing laths and roofs incorporating such laths

5 This invention relates to roofing laths for hanging roof tiles or shingles.

In one of the types of roof cladding common today, covering boards are first nailed onto rafters, and over this boarding sheets of waterproof roofing paper, or felt, or plastics sheeting are laid to seal the roof against dust, moisture and drifting snow. This is sometimes followed by espalier lathing which extends at an angle to the roof ridge and then by horizontal roof lathing, on which the roofing tiles or shingles are then hung.

15 The espalier lathing, which is usually laid perpendicularly to the ridge, allows through ventilation or rear ventilation of the roofing tiles or shingles. The espalier lathing also allows any water that may penetrate the tiles or shingles to drain away under the horizontal lathing without difficulty.

Disadvantages that occur, however, in this form of construction are not only the numerous, different time-consuming operations, which moreover should only be carried out during dry weather, but also the fact that these roofs do not in themselves possess any appreciable insulation against heat or cold.

More recently attempts have been made to fit additional thermal insulation to the roof. Apart from glass fibre insulating mats, ever increasing use is being made of sheets of foamed plastics material, especially polyurethane or polystyrene, the object being to fit these insulating materials not between the rafters but in such a manner that the entire surface of the roof is thermally insulated. Then, however, a new problem arises which is attributable to the plastics foam sheets. This is that, due to the springy nature of the foam sheeting neither the espalier laths nor the horizontal roof laths can be nailed in place in the usual manner. The laths can only be nailed if they are first drilled at those points at which they are to be nailed. In this connection it may be pointed out that on the basis of more recent roofing requirements (see, for example, the thermal insulation regulation that came into force in the Federal Republic of Germany on 1st November 1977), insulating boards or rigid polyurethane foam should be used having a thickness of at least 60mm.

The object of the present invention is to provide a roof lath which makes it possible to dispense with the espalier lathing both in those roofs that are equipped with covering boards and roofing felt or paper or plastics sheeting and also those in which foamed plastic sheets are laid directly on rafters.

According to this invention, a roofing lath for hanging roof tiles or shingles has transverse apertures through it at intervals to allow roof ventilation and to allow water to drain away.

The apertures are preferably situated on the lower face of the roof lath, that is the face which,

65 after the laths have been laid, is towards the rafters or roof boarding, and the apertures simultaneously ensure good ventilation and problem-free drainage away of any water that may penetrate the tiles or shingles. If only good through ventilation is of importance, then the apertures may then be disposed in the centre of the lath or in its upper face. In the latter case, it is only necessary to lay upside down the preferred form of lath, in which the apertures are situated on the lower face.

70 The cross-section of the apertures is so selected that it complies with architectural requirements. The sum of the cross-sectional areas of the apertures should constitute at least 1/3000 (one three thousandth) of the roof plan area.

The roof lath itself can have any desired form which permits the roofing tiles to be hung safely in accordance with the usual rules. Preferably, the roof laths of this invention have a form which in cross-section constitutes a square or other rectangle, a right-angled triangle, a channel section or an angle section. Depending upon the material from which the roof lath of this invention is manufactured, it can be either solid or tubular and either may be of a material that can be penetrated by nails or have at intervals holes which permit nailing.

According to an especially preferred embodiment of the invention, the roof lath has on its lower face, that is the face which after laying is towards the rafters or roof boarding, a baseplate which is broader than the lath and which either terminates flush with the one longitudinal edge of the lath or projects beyond both longitudinal edges of the lath. Depending upon whether the lath is of a solid material or, for example, of an angle section, the baseplate may form part of the structural cross-section of the lath. If the lath is of channel section, the baseplate may be so arranged that it only projects outwards along both sides, thus forming flanges, so that in cross-section a downwardly open lath is obtained. If the roof lath is hollow and has the cross-sectional form of a rectangle or a right-angled triangle, then the baseplate which projects beyond the lath at one side constitutes the lower face of the roof lath. Holes for nailing the roof lath onto the roof boarding or rafters may then be situated in the projecting portion of the baseplate. The roof boarding may consist of roof covering boards, faced with roofing paper or felt or with plastics sheeting, or may be of foamed plastics sheets laid side by side.

The baseplate may, of course, be fitted subsequently to the lath so that the lath as a whole may then be not of one material but of two different materials.

If the lath is of sheet metal, for example, of cold-rolled galvanized iron strip, then it may preferably be made by continuously or intermittently punching out a strip of metal in such a manner that circular, semi-circular, rectangular or otherwise shaped apertures are obtained at the

desired positions, the holes necessary for nailing-on of the lath being formed simultaneously or in a succeeding operation in the projecting baseplate if this is provided. When this has been done, the metal strip is bent by rolling into the desired cross-sectional form. Sections of this type can, of course, also be produced continuously by extrusion, for example of appropriate aluminium alloys or plastics materials, which if necessary are reinforced by the addition of filler substances, such as glass fibres. The apertures and the holes for nailing are then formed by known techniques, for example by drilling and/or milling.

According to one especially preferred embodiment of the invention, the roof lath of the invention is used for the production of a roof element described in German Offenlegungsschrift 25 32 853, which consists essentially of a plank-shaped base part, especially one of rigid polyurethane foam, and of a bearing lath or ledge for the roof tiles or shingles extending along one entire longitudinal side of the base part, the bearing lath resting upon the upper edge of the base part and projecting beyond this edge. The bearing lath is formed by a roof lath in accordance with the invention. In order to obtain a better fixing to the base part, a baseplate of the lath is bent over and perforated near its edge and this edge penetrates into the foamed base part. The outward projecting baseplate rests beneath a facing, for example a face of aluminium foil, so that water can flow off without coming into contact with the foamed plastics material.

The roof lath of this invention can, of course, also be used in conjunction with other plank-shaped base parts. In this connection, attention is once again drawn expressly to the aforementioned Offenlegungsschrift which also forms a part of the disclosure of the present invention.

The invention further consists, according to another of its aspects, in a roof comprising rafters, waterproof felt or plastics sheeting extending over and between the rafters, laths nailed to the rafters through the felt or sheeting and overlapping tiles on shingles hung on the laths, wherein each lath has transverse apertures through it at intervals to allow roof ventilation and to allow water to drain away.

The laths of the roof may of course include any of the features already described.

Some examples of roofing laths in accordance with the invention are illustrated in the accompanying drawings in which Figures 1 to 8 are perspective views, each of a different example.

Figure 1 shows a first example comprising rectangular transverse apertures. The roofing lath may be of any suitable material, for example wood or plastics. The apertures 1 can be either milled out from the lath, or the lath can be formed by short strips fixed transversely to the longitudinal direction, at intervals with gaps between them, to a continuous lath. The strips then produce the apertures 1 between them.

Figure 2 shows likewise in perspective view part of a roofing lath, in which the apertures 1 are

of semi-circular cross-sectional shape or, if they are situated in the centre of the thickness of the lath, are in the form of a bore 1a. Both the lath of Figure 1 and also that of Figure 2 are of rectangular cross-section.

Figure 3 shows in perspective view part of a roofing lath comprising apertures 1, and having the cross-sectional shape of a right-angled triangle.

Figure 4 shows part of a roof lath, which has the cross-sectional form of an angle section and, for example, may of an angle iron which, if desired, may be faced with plastics material. The apertures 1 and nailing holes 4 can be seen. The lower face of this lath in practice forms a baseplate.

Figure 5 shows likewise in perspective view part of a roofing lath, which has the cross-sectional shape of a tubular right-angled triangle, the lower face being extended and forming a baseplate projecting at one side. Here again, nail holes 4 and apertures 1 are provided.

Figure 6 shows part of a roofing lath, which for example can be formed by a roof lath according to Figure 1 or Figure 2 fitted on to a baseplate 2. This embodiment can also be made in one piece, for example of an extruded plastics material in which the apertures 1 are formed subsequently.

Figure 7 shows in perspective view a lath which is channel-shaped and downwardly open. A

baseplate 2 is formed by two flanges disposed at both sides of the lower face of the lath. This lath, as also the lath shown in Figure 5, can be made by stamping or punching out a sheet metal strip of appropriate width in such a manner that the apertures 1 are obtained and subsequently the sheet metal strip is brought into the desired roof lath form by cold rolling.

Figure 8 shows a roofing lath, which is formed by bending an appropriately shaped metal sheet after previous punching out of the apertures 1. In this example the baseplate projects only at one side beyond the longitudinal edge of the lath and additionally is cranked at its free edge and has, in the cranked side portion 7, holes 8 through which plastics material can penetrate in order to obtain a firm bond between the baseplate and a foamed plastics plank or strip 5. Figure 8 shows a preferred form of the lath for the manufacture of the roof element described in German

Offenlegungsschrift No. 25 32 853, in which the roof lath (termed a bearing batten in specification No. 25 32 853) is cantilevered beyond the upper longitudinal edge of the basic lath. The part 5 is preferably of rigid polyurethane foam. Instead of the roof lath illustrated in Figure 8, a lath as shown in Figure 3, which is appropriately cranked, can also be used with a strip 5.

Roofing laths in accordance with the invention can have any desired length, as also can the roof elements as shown in Figure 8, which are formed from the roof lath of this invention. In practice, lengths of 4 metres have proved especially satisfactory. The thickness h of the roofing laths is equal to the depth of conventional roof laths, it being generally sufficient for this thickness to be

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1.5 to 2.5 cm, depending upon the dimensions of the noses of the tiles or roof shingles.

CLAIMS

1. A roofing lath for hanging roof tiles or roof shingles, the lath having transverse apertures through it at intervals to allow roof ventilation and to allow water to drain away.
2. A lath according to Claim 1, the cross-section of which is a square or other rectangle, a right-angled triangle, a channel section or an angle section.
3. A lath according to Claim 1 or Claim 2, which is solid or tubular and is either of a material that can be penetrated by nails or has nail holes at intervals along it.
4. A lath according to Claim 1, which includes a baseplate at the side of the lath which, after it has been laid, is adjacent rafters or roof boarding, the baseplate being broader than the lath and either terminating flush with one longitudinal edge of the lath or projecting beyond both longitudinal edges of the lath.
5. A lath according to Claim 1, substantially as described with reference to any one of the Figures of the accompanying drawings.
6. A roofing element with an integral lath as described in German Offenlegungsschrift

25 32 853, the lath being in accordance with any one of the preceding Claims.

7. A roof comprising rafters, waterproof felt or plastics sheeting extending over and between the rafters, laths nailed to the rafters through the felt or sheeting and overlapping tiles or shingles hung on the laths, wherein each lath has transverse apertures through it at intervals to allow roof ventilation and to allow water to drain away.
8. A roof according to Claim 7, in which the cross-section of the laths is a square or other rectangle, a right-angled triangle, a channel section or an angle section.
9. A roof according to Claim 7 or Claim 8, in which each lath is solid or tubular and is either of a material that can be penetrated by nails or has nail holes at intervals along it.
10. A roof according to Claim 7, in which each lath includes a baseplate at the side of the lath which is adjacent rafters or roof boarding, the baseplate being broader than the lath and either terminating flush with one longitudinal edge of the lath or projecting beyond both longitudinal edges of the lath.
11. A roof according to Claim 7, in which each lath is substantially as described with reference to any one of the Figures of the accompanying drawings.